# Appendix D. Columbia Center for Children's Environmental Health—Mothers and Newborns Study

14-Day Exposure Assessment	D-1
48 –Hour Exposure Assessment	D-10

Date / /	
Center Subject ID #	Subject's initials
EPA Subject ID #	

## \*Columbia Center for Children's Environmental Health\* Mothers & Newborns Study EPA Subset Study

#### **14-Day Exposure Assessment**

1st questionaire	
2nd questionaire	
3rd questionaire	
4th questionaire	
5th questionaire	 Prenatal / Postnatal

1. Have you been employed outside the home during the last 14 days?

(Durante los ultimos 14 dias, has trabajado fuera de su casa?)

**A**. If yes, for how many days during the last 14 days did you work outside the home? (Por cuantos dias durante los ultimos 14 dias trabajo fuera de su casa?)

Numb	er of days	
DK		88
NR		99
1117		, ,

**B**. For how many hours during each of those days on average were you away from your home for your work (including travel)?

(Por cuantas horas durante cada dia estuvo fuera de su casa incluyendo en transito?)

Numb	er of hours	
DI		0.0
DK		88
NR		99

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C. For any jobs you have held during the last 14 days, please tell me the type of business, your position, dates of your employment, and your employer's address.

(Por todos los empleos que tuvo durante los ultimos 14 dias, favor de decirme el tipo de negocio, su posicion, la fecha, y la direccion de empleo.)

Job 1:	Type of business
	Your position
	Dates of employment
	Employer's Address
Job 2:	Type of business
	Your position
	Dates of employment
	Employer's Address

2. Thinking back over the last 14 days, for how many hours on average each day were you away from your home (including time spent at work, shopping, travelling, picking up children, at a friend's home, taking a walk, etc.).

(Durante los ultimos 14 dias, cuantas horas por dia, en promedio, estuvo fuera de su casa?)

Numbe	er of hours	
DK		88
NR		99

3. Excluding the time you spent away at work (if any), during the last 14 days was there any single day when you were away from your apartment for 5 or more hours (including travel)?

(No incluyendo los dias que trabajo, hubo algun dia que paso 5 horas o mas fuera de su casa(incluyendo en transito)

Yes (Ask A-B)	1
No (skip to 4)	2
DK	88
NR	99

**A**. If yes, for how many days in the last 14 days were you away from the house for 5 or more hours excluding the time you spent at work?

(Cuantos dias estuvo fuera de su casa por 5 horas o mas?)

Number of days			
DK			88
NR			99

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**B.** Excluding your work location, was there any other single location outside your home where you spent 5 or more hours on any day during the last 14 days.

(No incluyendo donde trabajo hubo otro lugar donde paso cinco horas o mas?)

Yes (Ask 3C) 1 No (skip to 4) 2 DK 88 NR 99

C. Please tell me the type of location (relative's home, friend's home or other location) and the persons name and address if known. (Favor de decirme la locasion, el nombre de la persona, y direcsion)

Location 1: Type of location Relative's home Friend's home Other (specify) Name Address Location 2: Type of location Relative's home Friend's home Other (specify) Name Address Location 3: Type of location Relative's home Friend's home Other (specify) Name Address

4. In the last 14 days, how many hours a day on average would you say you spent outdoors? (PROBE: Time spent outdoors could include sitting in the park, time spent running errands, but not time spent at work or inside a friend's or relative's house). Would you say you spent. .

(En los ultimos 14 dias, no incluyendo el tiempo que trabajo, cuantas horas por dia en promedio, paso afuera en la calle en aire libre? (Tiempo en parque, haciendo mandados)

≤--1hr 1
2-4 hrs 2
5-6 hrs 3
7 or more hrs 4
DK 88
NR 99

5-8. In the past 14 days, while in your home, have you smoked a [INSERT TOBACCO]

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(En los ultimos 14 dias, fumo usted en su casa [INSERT TOBACCO]?)

	A. Yes = 1 (ask B-C) No = 2 DK = 88 NR = 99	B. How many days did you smoke in your home? B. Cuantos dias?	C. # tobacco items smoked per day in your home C. # de tobacco diario
<b>5. Cigarette</b> Cigarillo			
6. Pipe Pipa			
7. Cigar Cigarro			
8. Marijuana			

- **B.** For how many days during the last 14 days did you smoke in your home? (Cuantos dias fumo en su casa?)
- C. During the days you smoked, how many [INSERT TOBACCO] per day on average did you smoke in your home? (Cuantos [INSERT TOBACCO] fumo cada dia?)
- 9-12. In the last 14 days, has someone else smoked [INSERT TOBACCO] inside your home? (En los ultimos 14 dias, fumo otra persona en su casa?)

Tobacco	A. Yes = 1 (ask B-D) N0 = 2 DK = 88 NR = 99	B. # of people per day that smoked in your home last 14 days (# de las personas)	C. # hours per day someone else smoked in your home last 14 days (Cuantas horas por dia fumaron en su casa)	D. # tobacco items per day smoked in your home last 14 days (# de tabacco por dia que se fumo en su casa)
9. Cigarette Cigarrillo		(" ar and personnes)	31.04.04.04.0	22 23332 23 24 24 24 24 24 24 24 24 24 24 24 24 24
10. Pipe Pipa				
11. Cigar Cigarro				
12. Marijuana				

- **B**. How many other people smoked in your home each day? (Cuantas personas fumaron en su casa?)
- C. How many hours a day was your home exposed to someone elses smoke? (Cuantas horas por dia fumo otra persona en su casa?)
- **D**. About how many total (tobacco) per day were smoked in your home? (Cuantos (tabacco) fumaron en su casa cada dia?) (mas o menos)
- 13-16. Over the last 14 days, have you noticed any [INSERT PEST] in your home?

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(En los ultimos 14 dias, has notado [INSERT PEST] en su casa?)

**B.** If yes, how frequently have you observed [INSERT PEST] in your home? (Con que frequencia has notado [INSERT PEST] en su casa?)

PEST	A. Yes = 01 (ask B) No = 02 DK = 88 NR = 99	B. Frequency < once/week =1 1-3 times/week =2 4-6 times/week =3 Daily =4
13. Cockroaches		
Cucarachas		
14. Mice		
Ratones		
15. Rats		
Ratas		
16. Other		
Otro		
(specify)		

17. During the last 14-days has an exterminator (i.e. anyone other than your super) sprayed chemicals or any other material in your home to get rid of insects or animal pests? (Probe: Did someone/an exterminator from a company come to your home to spray for pests?)

(Durante los ultimos 14 dias, a venido un exterminador a fumigar su casa?)

Yes	1
No	2
DK	88
NR	99

18. During the last 14 days have you, your super, or anyone else ( not an exterminator) used any pest control measures (pesticides, traps, etc.) to control pests (insects, rodents) in your household?

(Durante los ultimos 14 dias, usted, el super, o otra persona (no el exterminador) han usado algun metodo para controlar insectos o roedores en su casa?)

Yes	1
No	2
DK	88
NR	99

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#### 19-26. During the last 14 days [RECORD ANSWERS IN TABLE BELOW]

(Durante los ultimos 14 dias)

- **A.** Were any of the following pest control methods used? (Has usado los sigiente metedos para controlar pestilences?)
- **B.** What pests were they used for? (Para cual pestilence fue usado?)
- **C.** Who used them (exterminator, super, yourself, other person)? (Quien lo uso?)
- **D.** How frequently were they used? (Con que frequencia se uso?)
- **E.** What brand or type of traps or pesticide (i.e. spray or powder) were used? (Que marca o tipo de trampa o pesticida fue usado?)

#### [RECORD ANSWERS IN TABLE BELOW]

	A. Type Yes = 1 No = 2 DK = 88 NR = 99	B. Pests Used For Roaches(Cucaracha) = 1 Mice(Ratones) = 2 Rats(Ratas) = 3 Ants(Ormigas) = 4 Roaches & Rodents = 5 Roaches & Ants = 6 Other = 7	C. Who Used Exterminator = 1 Super = 2 Participant = 3 Other (specify) = 4	D. Frequency 1 time = 1 2 times = 2 3 times = 3 4 times = 4 5 times = 5 > 5 times = 6	E. Brand or type used DK =8 NR =9
19. Sticky traps (La Pega)					
20. Bait traps (Discos Negros) (e.g. Combat)					
21. Boric Acid (Acido Borico)					
22. Gel (La gelatina)					
23. Spray by an exterminator					
24. Can sprays (Rociada de lata					
25. The bomb (La bomba)					
26. (Street Pesticides) Tempo,3 pasitos					

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### 27-30. In the last 14 days, was your home exposed to (i.e. did you have smoke or fumes from [enter source] in your home [INSERT EXPOSURE]...

(En los ultimos 14 dias, ha sido su hogar expuesto a) [INSERT EXPOSURE]

Exposure	A. Exposed in last 14 days Yes = 1 No = 2 DK = 88 NR = 99	B. Was the source: Inside your home(dentro de su casa)= 01 Inside your building(dentro de su edificio) = 02 Outside within 1 block(dentro de una cuadra) = 03 Outside within 2-3 blocks(a 2 o 3 cuadras) = 04 Outside > 3 blocks away(mas de 3 cuadras) = 05 DN = 88 NR = 99	C. Frequency ≤ 1 hours = 1 2-4 hours = 2 5-7 hours = 3 7-9 hours = 4 ≥ 9 hours = 5 DN = 88 NR = 99
27. Hot asphalt or tar roofing material (Asfalto caliente o brea o petrolio)			
28. Incinerator smoke (Humo de Incinerador)			
29. Smoke from a building or other type of structure fire (Humo de un edificio o otro tipo de fuego)			
30. Wood smoke from a wood stove or fireplace (Humo de madera o chimenea)			

- **B.** If yes, indicate location of exposure. (Indique de donde vino la exposicion)
- C. How many hours did your home receive exposures over the last 14 days? (Por cuantas horas fue expuesta en los ultimos 14 dias?

Date _ Center EPA S	_// Subject ID # ubject ID #	Subject's initials
31.		n your home burned food while cooking in your
		asa ha quemado comida mientras cocinaba en su casa ?)
	Yes (ask A) No DK NR	1 2 88 99
	A. If yes, how many times have you or someo (Cuantas veses an quemado comida en su c	ne burned food in your home in the last 14 days? asa en los ultimos 14 dias?)
	Number of times  DK 88	
32.	NR 99 In the last 14 days, how many times, if at all,	have candles been burned in your home?
<i>52.</i>	(En los ultimos 14 dias, cuantas veces ha encen	
	Number of times (put zero if ca	andles were not burned)
	DK NR	88 99
33.	In the last 14 days, how many times, if at all, (En los ultimos 14 dias, cuantas veses an encen	
	Number of times (put zero if in	acense was not burned)
	DK NR	88 99
34.	In the last 14 days, has your home been heat (En los ultimos 14 dias, su casa fue calentada c	
	<ul><li>a) radiator</li><li>b) kerosene, or(kerosena)</li></ul>	1 2

2
3
4
o) 5
6
88
99

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#### Columbia School of Public Health Mothers & Newborns Study

#### 48 -Hour Exposure Assessment

1-4.

**A.** I'd just like to ask you some questions about the last 48 hours. In the last 48 hours, were you exposed to [INSERT EXPOSURE]. . .

#### IF YES ASK B-D

- **B.** Was your exposure direct? (PROBE: Did you handle [INSERT EXPOSURE]?)
- C. How long were you exposed to [INSERT EXPOSURE]? Would you say. . .

#### Check to see if participant is employed, If NOT, Skip to Question 5

**D.** Did the exposure to **[INSERT EXPOSURE]** occur while you were at work?

EXPOSURE	A. Exposed in last 48 hrs.  Yes= 1  No = 2  DK = 888  NR = 999	B. Direct Exposure Yes = 01 No = 02 i.e. Doing it yourself or direct contact w/ the substance.	C. Frequency ≥8hours = 1 5-7 hrs.= 2 2-4 hrs.= 3 ≤1 hr = 4	D. At work Yes = 01 No = 02
Coal products from hot asphalt or tar roofing material				
Black carbon from copying or printing machines				
3. Incinerator				
4. Wood smoke from a wood stove or fireplace,				

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5. In the last 48 hours, was there a fire in your . . .

<ul><li>a) building or</li></ul>	(Ask B)	01
b) neighborhood?	(Ask A-B)	02
c) no		03
d) DK		888
e) NR		999

**A.** Was the fire. . .

a)	in your block,	01
b)	2-3 blocks away, or	02
c)	> 3 blocks away?	03
d)	INAP	777
e)	DK	888
f)	NR	999

**B.** Were you exposed to smoke from the fire?

Yes	01
No	02
INAP	777
DK	888
NR	999

#### 6-9. In the past 48 hours, have you smoked a [INSERT TOBACCO]?

	Exposure in last 48 hours Yes = 1		
	No = 2 DK = 888		B. Last smoked
	NR = 999	A. Number	(# of Hours)
6) Cigarette	01		
	Ask A		
7) Marijuana joint	01		
	Ask A		
8) Pipe	01		
	Ask A		
9) Cigar	01		
	Ask A		

- **A.** In the last 48 hours, how many [INSERT TOBACCO] did you smoke?
- **B.** How many hours ago did you smoke your last[INSERT TOBACCO]?

Date/	_/ Int	terviewer Initials _	Subj	ect Initials	Subject ID	
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10. In the lasmoke?		ve you been expo	osed to someone	else's cigarette,	pipe, marijuana	ı, or cigar
to secor	ast 48 hours – in nd hand smoke f	Yes ( No DK NR  your [INSERT From [INSERT T E: About how m	OBACCO]?	about how man	y [INSERT TO	BACCO] were
TOBACCO	A. # hrs exposed at HOME last 48 hours	B. # tobacco item exposed at HOME last 48 hours	C. # hrs exposed at WORK last 48 hours	D # tobacco item exposed at WORK last 48 hours	E # hrs Exposed elsewhere last 48 hours Specify	F # tobacco item Exposed elsewhere last 48 hours Specify
11) Cigarette						
12) Marijuana						

**15.** 

13) Pipe

14) Cigar

- A. In the last 48 hours, have you fried or sauteed food for a meal? [RECORD ANSWER BELOW]
- **B-E.** In the last 48 hours, how many times did you use your stove to fry or sautee food for [INSERT MEAL]...
- **F-I.** In the last 48 hours, how many minutes did it take you to fry or sautee your [INSERT MEAL]?

16.

- A. In the last 48 hours, have you broiled food for a meal? [RECORD ANSWER BELOW]
- **B-E.** In the last 48 hours, how many times did you broil food for [INSERT MEAL] . . .
- **F-I.** In the last 48 hours, how many minutes did it take you to broil your [INSERT MEAL]?

17.

- A. In the last 48 hours, did you cook anything on a charcoal grill? [RECORD ANSWER BELOW]
- **B-E.** In the last 48 hours, how many times did use a charcoal grill to cook [INSERT MEAL] . . .
- **F-I.** In the last 48 hours, how many minutes did you spend charcoal grilling your [INSERT MEAL]?

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					a 1	
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Codes INAP= 777 DK=888 NR=999

		A. In	Home		Nur	nber of	Times U	Jsed	Min	utes of u	ıse per ı	neal
	Yes	No	DK	NR	B. Breakfast	C. Lunch	D. Dinner	E. Other	F. Breakfast	G. Lunch	H. Dinner	I. Other
15. Fry/Sautee	01 Ask A- B	O2	888	999								
16. Broiling	01 Ask A- B	O2	888	999								
17. Charcol Grill	01 Ask A- B	O2	888	999								

#### 18. In the last 48 hours, have you, or someone in your presence burned food while cooking?

Yes	01
No	02
DK	888
NR	999

Date / /	Interviewer I	nitials	Subject Ini	tials S	ubject ID	
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19-24 In the last 48 hour COOKING METH	-	mes have you	eaten [INSER	T MEAT] that	was [INSER]	Γ
	Would you Once 2-3 times 4-5 times >5 times DK NR	(	01 02 03 04 888 999			
			M	eat	I	
Cooking Method	19. Poultry	20. Hamburger	21. Steak	22. Pork (not including sausage/bacon)	23. Sausage/ Bacon	24. Fish
A. Fried						
B. Broiled						
C. Barbequed/						
Charcoal						
Broiled						
D. Combing all cooking methods, cooked so that it is browned or blackened on the outside						
25. In the last 48 hour	s, how many ti	mes have you	burned candle	es?		
			1			
		DK NR		888 999		
26. In the last 48 hour	s, how many ti	mes have you	burned incens	se?		
			]			
		DK		888		
		NR		999		

Date _	//	Interviewer Initia	ls	Subject Initials	Subject ID
					Given on Final Version Y/N
27.	In the last	48 hours, have you heated	l your home wi	th a	
	a)	kerosene, or	01		
	b)	coal heater?	02		
	c)	No	03		
	d)	DK	888		
	e)	NR	999		
28.	In the last	48 hours, was the heat in	your building (	on	
	a)	all of the time,	01		
	b)	half the time (= 24 hrs),	02		
		< 24 hours, or	03		
	d)	not at all?	04		
	e)	DK		888	
	f)	NR		999	
29.	In the last	48 hours, how many hour	s a day would y	you say you spent	outdoors? (PROBE: Time spent
	outdoors c	could include sitting in the			ls, but not time spent inside a
	friend's or	relative's house).			
	Wo	ould you say you spent			
		≤ 1hr	01		
		2-4 hrs	02		
		5-6 hrs	03		
		7 or more hrs	04		
		DK	888		

30. In the last 48 hours, how many hours did you spend in transit? (PROBE: How many hours were you traveling back and forth from place to place?).

999

 $\begin{array}{cccc} \mbox{Would you say you spent.} & . & . \\ & \leq 1 \mbox{hr} & 01 \\ 2 \mbox{-}4 \mbox{hrs} & 02 \\ 5 \mbox{-}6 \mbox{hrs} & 03 \\ 7 \mbox{ or more hrs} & 04 \\ \mbox{DK} & 888 \\ \mbox{NR} & 999 \\ \end{array}$ 

NR

Date _	///	Interviewer Initials	Subject Initials	Subject ID
				Given on Final Version Y/N
Versio	on Y/N			
31.	In the last 48 hours what mode of trans	s, please tell me your 3 most sport you take the most, then	common means of trans the 2 <sup>nd</sup> most, and final	sportation. Start by telling me lly, your 3 <sup>rd</sup> most.
		<u>CODES</u>		
	A. Most Common C. 3 <sup>rd</sup> Most	,	01 02 03 04 0 0 0 06 <b>B.</b> 2 <sup>nd</sup> Most (Inse	
32.	any other material	hours has an exterminator (in your home to get rid of in a company come to your ho  Yes (ask 34-41)  No  DK	sects or animal pests? (	our super) spray chemicals or Probe: Did someone/an
33.		NR hours have you, your super, pesticides, traps, etc.) to cont		exterminator) used any pest nts) in your household?
		Yes (ask 34-41)	01	

Yes (ask 34-41)	01
No	02
DK	888
NR	999

		Given on Final Version	Y/N
Version	n Y/N		
34–41.	[RECORD ANSWERS IN TABLE BELOW] During the last 48-hours		
	<b>A.</b> What kind of traps or pesticides were used?		
	<b>B.</b> What pests were they used for?		
	C. What brand or type of traps or pesticide (i.e. spray or powder) were used?		

Date \_\_\_/\_\_\_ Interviewer Initials \_\_\_\_\_ Subject Initials \_\_\_\_ Subject ID \_\_\_\_

#### [RECORD ANSWERS IN TABLE BELOW]

	A. Type  Yes = 1  No = 2  DK = 8  NR = 9	B. Pest(s) Used For  Roaches = 1  Mice = 2  Rats = 3  Ants = 4  Other = 5 (Specify)	C. Brand(s) or Type(s) Used
34. Sticky traps		` *	
35. Bait traps (e.g. Combat)			
36. Boric Acid			
37. Gel			
38. Spray by an exterminator			
39. Can Sprays			
40. The Bomb			
41. Other (specify)			

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42.			• •	e. sitting, resting or sleeping) Third?) (= total time at rest)
	0-8 hours	01		
	8-16 hours	02		
	16-24 hours	03		
	24-32 hours	04		
	32-40 hours	05		
	DK	88		
	NR	99		
43.	the first day? Secon	nd? Third? Either at home	0	th the air monitor? Probe: On time wearing it while moving)
	0-8 hours	01		
	8-16 hours	02		
	16-24 hours			
	24-32 hours	04		
	32-40 hours	05		
	DK	88		
	NR	99		
44.			riod of time? (Probe: For sleep without it next to yo	example did you at any point ou?)
	0-8 hours	01		
	8-16 hours	02		
	16-24 hours	03		
	24-32 hours	04		

32-40 hours

DK

NR

05

88 99